

1 IN THE UNITED STATES DISTRICT COURT
2 FOR THE DISTRICT OF ALASKA

3 RICHARD HELMS,
4 Plaintiff,
5 vs.
6 UNITED STATES OF AMERICA,
7 Defendant.
8

Case No. 3:11-
cv-00186-SLG

9 **DEPOSITION OF BRUCE WAPEN, M.D.**

12 November 19, 2013

13 Taken By Gary M. Guarino

15 TIME SET: 10:30 a.m. PST

16 DURATION: 10:32 a.m. to 12:30 p.m. PST

17 LOCATION: Bay Area Executive Offices, Inc.
18 Airport Corporate Center
19 533 Airport Boulevard, Suite 400
Burlingame, California

20 Reported by Christine M. Niccoli, RPR, C.S.R. No. 4569

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ARBITRATIONS, DEPOSITIONS, HEARINGS, MEETINGS, TRIALS**

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18 ---oOo---

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1 BE IT REMEMBERED that, pursuant to Notice of

2 Taking Deposition of Bruce Wapen, M.D., and on Tuesday,
3 November 19, 2013, commencing at the hour of
4 10:32 a.m. PST thereof, at Bay Area Executive Offices,
5 Inc., Airport Corporate Center, 533 Airport Boulevard,
6 Suite 400, Burlingame, California, before me,
7 CHRISTINE M. NICCOLI, a Certified Shorthand Reporter
8 licensed by the State of California, there personally
9 appeared

10 BRUCE DAVID WAPEN, M.D.,

11 whose business address is 969-G Edgewater
12 Boulevard, No. 807, Foster City, CA
13 94404-3760, who is called as a witness by the
14 Defendant herein and, having first taken an
15 oath, is examined and testifies hereinafter.

16 MR. GUARINO: Hello, Christine, it's Gary
17 Guarino from the U.S. Attorney's Office in Anchorage,
18 Alaska. I'm calling for the deposition of Dr. Bruce
19 Wapen, I believe.

20 THE COURT REPORTER: Yes. Wapen. We're all
21 here ready to go, and Dr. Wapen has been sworn in.

22 MR. GUARINO: Okay, and who is there?

23 THE COURT REPORTER: Mr. Helms is here,
24 Dr. Wapen, and myself, the court reporter.

25 MR. GUARINO: All right. Is this being

Exhibit C

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1 A. Okay.

2 Q. Have you ordered those types of scans in your

3 experience?

4 A. Routinely.

5 Q. Okay. How long does it take for one of those

6 exams to be ordered, for the patient to undergo the

7 exam, and for the results to be interpreted by a

8 radiologist?

9 A. About a half an hour.

10 Q. Okay. Does it sometimes take longer?

11 A. It may; but because of the time imperative with

12 strokes, we now have what we call a Code Stroke, which

13 is sort of like equivalent to the Code Blue for heart --

14 cardiopulmonary arrest.

15 And the Code Stroke then stops Radiology

16 Department in their tracks, waiting for the patient to

17 go directly from the Emergency Department after an

18 initial evaluation to get the CT scan; and the

19 radiologist then immediately reads the CT scan and calls

20 the emergency physician back. So everything has been

21 expedited to make this whole process go as quickly as

22 possible.

23 Q. How long have you -- how long have you had that

24 Code-Stroke process in place?

25 A. Yeah. That's been about two years.

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1 Q. About two years?

2 A. Yes.

3 Q. From today?

4 A. Yes.

5 Q. All right. Do you know whether there was such

6 a Code-Stroke process in place back in 2008 in Alaska?

7 A. I do not.

8 Q. And at the medical facility that you are at, do

9 you have a radiologist on staff who's -- or someone

10 who's available 24 hours a day?

11 A. Yes.

12 Q. Are they in the building 24 hours a day?

13 A. No. In the -- in the late evening, they go

14 home, and then overnight until about 8 o'clock the next

15 morning we have teleradiology. Now that all the images

16 are digital, they can be sent anyplace in the world at

17 the speed of light and read by radiologists

18 immediately.

19 And again, if it's a stroke patient, rule out

20 intracranial bleed, the -- the teleradiologists late at

21 night are instructed to make this their highest

22 priority.

23 Q. And are there any other tests that need to be

24 done on a potential stroke patient prior to making a

25 decision as to whether and how to treat them?

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1 A. Well, there are a number of tests that are

2 done, including a electrocardiogram, to make sure that

3 their atrial fib is not going on, which would then make

4 one think that maybe this were an embolic stroke,

5 although that wouldn't preclude the use of tPA.

6 The -- A baseline coagulation study is done to

7 make sure that they are not already in an anticoagulated

8 state because of, let's say, liver failure from

9 alcoholism, something of that nature.

10 But outside of those things, there are other

11 studies that are done as part of the stroke protocol,

12 but none of them would preclude the administration of

13 tPA. The main exclusion would be the visualization of

14 bleeding in the brain on a CT scan.

15 Q. So if did a CT scan and saw signs of

16 hemorrhage, then that would be a counter indication

17 [sic] for administering tPA?

18 A. Oh, absolutely.

19 Q. All right. Are there any other physical

20 characteristics -- blood pressure, blood cell counts,

21 blood sugar, anything like that -- that would be a

22 counter indication for administering tPA?

23 A. Yes. So there's a list of contraindications

24 which include a blood pressure systolic of higher than

25 185, such historical things as major surgery or major

40

1 trauma within the last three months of a previous stroke

2 or within the last three months, concomitant use of

3 other potent anticoagulation agents like Coumadin.

4 And that -- there's a list. It's about ten

5 things, which I always have to scan through, keep it

6 kind of in my pocket when I'm at work so that I don't

7 miss one of the exclusion criteria.

8 Q. And you -- and the patient would have to be

9 assessed for those exclusion criteria before a decision

10 would be made as to whether to administer tPA?

11 A. Yes. But that's a very quick process other

12 than the doing of the CT scan. The rest of those things

13 is a very quick process.

14 Q. And, I take it, you don't have any personal

15 knowledge about what the CT scan capability was at any

16 of the medical facilities in Alaska in 2008?

17 A. I do not.

18 Q. And you don't have any personal knowledge as to

19 how long it took any of those facilities to conduct CT

20 scans on potential stroke patients back in August of

21 2008?

22 A. I do not.

23 Q. Now, assume that a patient has -- a potential

24 stroke patient has a CT scan and that the finding is

25 that it's an ischemic stroke.

Exhibit C

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1 And just for the record, my understanding of
2 ischemic stroke is a stroke that's caused by a blockage
3 in blood flow. Is that correct?
4 A. That's correct.
5 Q. All right. And so assume that the scan finds
6 evidence of ischemic stroke. Your report indicates that
7 at that point, the standard of care would be for the
8 treating physician to discuss the treatment options with
9 the patient. Is that correct?
10 A. That is correct.
11 Q. And in fact, I'm looking at the bottom of
12 page 3 of your report. Do you see that?
13 A. Yes.
14 Q. You say, "The standard of care in Emergency
15 Medicine would have been to discuss the pros and cons of
16 the use of the drug tPA with the patient and to
17 administer that drug if the person chose that avenue of
18 therapeutic intervention."
19 Did I read that correctly?
20 A. Yes.
21 Q. Okay. Would you explain to me what you meant
22 by the pros and cons of the use of tPA.
23 A. Yes. So tPA it can -- is a double-edged
24 sword. Used correctly, it has the potential to either
25 improve the symptoms of the stroke or completely resolve

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1 the symptoms of the stroke in about 12 percent above
2 that which would happen in a person who received no
3 treatment of any kind for his or her stroke.
4 Q. And let me make sure I understand what you're
5 saying there; that some patients will have improvement
6 or resolution even without tPA?
7 A. Correct.
8 Q. But that there's an additional 12 percent of
9 patients who might benefit either by improvement of
10 their symptoms or resolution of their symptoms through
11 the use of tPA?
12 A. Correct.
13 Q. So it's not a zero-sum game. It's not you
14 don't get improvement if you don't get tPA and you
15 automatically get improvement if you do get tPA?
16 A. That's correct.
17 Q. All right. Continue on.
18 A. Yes.
19 Q. Sorry to interrupt you, but I just want to make
20 sure I understand this. If you could continue with the
21 pros and cons.
22 A. Yes. So the con is that in a subset of people,
23 around 6 percent, the administration of tPA will
24 engender intracranial bleeding usually thought to be
25 coming from damaged brain tissue, and that can be

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1 catastrophic either in killing the patient or in causing
2 increased stroke-like symptoms.
3 And therefore, it is -- you need to discuss
4 with the patient the fact that this drug has the
5 potential to help them but also the potential to hurt
6 them.
7 Q. And using the figures you just provided, it
8 sounds like you're talking about a 12 percent chance of
9 improved outcome versus a 6 percent chance of having
10 intracranial bleeding.
11 A. Yeah. These percentages are on top of what you
12 would expect if you did nothing at all. So even those
13 people who have nothing at all done can go from an
14 ischemic stroke to a hemorrhagic stroke again because --
15 theoretically because of the death of brain tissue which
16 then leaks blood.
17 Q. And I've seen reference to that.
18 Is that where you have an ischemic stroke that
19 damages blood vessels and then when you get a
20 reperfusion of blood into that area, it can burst
21 through some of those damaged blood vessels?
22 A. Yes, either burst through the blood vessels or
23 just the tissue itself has lost its integrity 'cause
24 it's now dead tissue and it just falls apart and the
25 small blood vessels in there fall apart with it.

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1 Q. All right. And just so that I can follow this
2 along then, you have a pote- -- a stroke patient who's
3 got sort of a baseline risk of -- or baseline
4 probability of either getting better or having a bleed,
5 and you're talking about what the additional pros and
6 cons are for the use of tPA, correct?
7 A. Correct.
8 Q. And I don't want to go back through the
9 testimony, but you've got this percentage of possibility
10 that it might improve his condition, and you've got a
11 percentage that it might cause him to suffer a dangerous
12 bleed in his brain, correct?
13 A. Correct.
14 Q. All right. And again, I apologize for
15 interrupting you, but I want to follow this along; and
16 if I wait to the end, I'll forget my question.
17 Can you continue, please, discussing what the
18 pros and cons are that you would present?
19 A. Yeah. And so the other issue, then, is how
20 debilitating is this stroke. Do you want -- or could
21 you live comfortably with the disability that you're now
22 presenting with in the emergency department, or would
23 you find that to be a real problem for you and your
24 lifestyle; and therefore, are you willing to try this
25 drug with the hope that it will ameliorate the problem

Exhibit C

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1 My understanding is it is something like 40 minutes.
2 And there are a number of contraindications to doing MRI
3 which precludes everybody's being able to be put into
4 the scanner.
5 Therefore, the CT scan is the preferred
6 modality. The MRI actually will see a stroke earlier on
7 than a CT scan will, but both CT and MR will see bleeds
8 about equally well. Since the initial imaging is done
9 primarily to answer the question "is there a bleed or
10 isn't there a bleed," that makes the CT scan the
11 preferred modality.
12 Q. So the time that you can do the CT scan makes
13 it the preferred test because you're basically looking
14 to see if the patient has an ischemic stroke or a
15 hemorrhagic stroke?
16 A. Correct.
17 Q. And I think you said this before, but I just
18 want to make sure I followed you.
19 If the patient has a hemorrhagic stroke, then
20 that would be a contraindication for giving tPA?
21 A. Correct.
22 Q. All right. And if you could take a look at
23 page 4 of your report.
24 A. Yes.
25 Q. You mentioned several points in your testimony

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1 about the time factor in the decision of whether to use
2 tPA. And in the bottom of the first paragraph on
3 page 4, you state "The use of tPA is a time-dependent
4 issue, and expeditious transfer would be of the highest
5 priority."
6 Did I read that correctly?
7 A. Yes.
8 Q. And if you could turn to page 5 of your report,
9 in the first full paragraph there, the sentence where
10 you state -- or part of a sentence, you state "It was
11 the standard of care to offer it," meaning tPA, "to
12 patients within the first three hours of the onset of
13 stroke symptoms at the time that Mr. Helms had his
14 medical emergency."
15 Did I read that correctly?
16 A. Yes.
17 Q. And so am I interpreting your report correctly
18 that in August of 2008, the standard of care for the
19 treatment of potential stroke patients was to offer them
20 tPA if you could administer it within three hours of the
21 onset of symptoms?
22 A. Yes.
23 Q. All right. And so to determine whether
24 Mr. Helms could have been offered tPA under the standard
25 of care in 2008, you would have to start from whatever

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1 time his stroke symptoms began and then work forward
2 three hours and determine whether it would have been
3 possible to diagnose his condition to do what -- the
4 imaging that needed to be done in order to administer
5 the tPA within that three-hour period; is that correct?
6 A. Correct.
7 Q. And -- and again, so just that it's clear, if
8 his symptoms started at 5:30 in the morning, then the
9 time window would be until approximately 8:30 in the
10 morning?
11 A. Correct.
12 Q. All right. Doctor, pardon me for a moment.
13 I'm going through my notes and crossing off some
14 questions. I'm not ignoring you. I'm just trying to
15 shorten this up a little bit.
16 A. Okay.
17 Q. And, Doctor, stated in the converse, if more
18 than three hours had passed between the onset of
19 Mr. Helms' stroke symptoms, then in 2008 the standard of
20 care would be not to administer tPA?
21 A. Correct.
22 Q. Now, within that three-hour I'll call it window
23 of treatment for tPA, is the general rule of sooner is
24 better than later -- does that apply?
25 A. Yes.

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1 Q. And so is it generally correct that if tPA is
2 going to have a beneficial effect, you have a greater
3 chance of it having a beneficial effect if you could
4 administer it to a patient one hour after the symptoms
5 start than if you administer it at two hours and
6 45 minutes after the symptoms start? Would that be a
7 fair statement?
8 A. Yes.
9 Q. And so you want to try and get the patient
10 diagnosed and administer the tPA as soon as possible
11 within this three-hour window, correct?
12 A. Correct.
13 Q. All right. Now -- and you talk about the
14 results of the use of tPA, and you've testified about
15 that before. I'm not going to go through all that
16 testimony.
17 But you use two words that I want to ask some
18 follow-up questions about. You use the word improvement
19 of symptoms and -- versus resolution of symptoms.
20 Did I hear you correctly?
21 A. Yes.
22 Q. And am I interpreting that correctly to mean
23 that if tPA were to work, that in some patients it might
24 improve their symptoms; whereas for other patients,
25 there might be a complete resolution of the symptoms?

Exhibit C

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1 Am I --? Is that a fair statement?

2 A. Yes.

3 Q. And so you'd agree that there are ranges of

4 outcomes for stroke patients; even if the tPA is

5 effective, there could be a range of positive outcomes,

6 correct?

7 A. Yes.

8 Q. And so someone might have a positive response

9 to tPA but only have partial improvement of their

10 symptoms; they might still have some remaining

11 deficits. Would that be a fair statement?

12 A. Yes.

13 Q. And some other percentage of patients might be

14 lucky that they would get tPA and have a complete

15 resolution of their symptoms. Would that be fair?

16 A. Yes.

17 Q. But at the same time, there are some stroke

18 patients who wouldn't get tPA at all, and they might

19 also have a complete resolution of their symptoms?

20 A. Yes.

21 Q. And then there are a number of patients who get

22 tPA, and they don't get any improvement in symptoms. Is

23 that a fair statement?

24 A. Yes.

25 Q. All right. And then you made reference to the

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1 some percentage of patients who get tPA, and they

2 actually have bad side effects, that they get cerebral

3 hemorrhage from the administration of tPA. Is that a

4 fair statement?

5 A. Yes.

6 Q. All right. Are you able to predict ahead of

7 time which patients will get improvement from tPA and

8 which ones won't?

9 A. No.

10 Q. All right. And are you able to predict ahead

11 of time how much improvement the patient might get from

12 tPA?

13 A. No.

14 Q. Okay. If you could turn to page 5 of your

15 report.

16 A. Yes.

17 Q. And this is the section of your report where

18 you're talking about causation. You started talking

19 about that on page 4, but it continues on to page 5.

20 Do you see that?

21 A. Yes.

22 Q. And you state in the first full paragraph on

23 page 5:

24 In most areas of medical malpractice law

25 one must show that meeting the standard of

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1 care would probably have resulted in a good

2 outcome; or, conversely, that failing to meet

3 the standard of care probably caused the bad

4 outcome.

5 Did I read that correctly?

6 A. Yes.

7 Q. And that's generally referring to the standard

8 of proof in civil litigation that in order to prove an

9 element, whoever has the burden to prove has to prove

10 that something is more likely than not true. Do you

11 understand that?

12 A. Yes.

13 Q. And if it's a medical malpractice claim and the

14 claim is that someone failed to give some treatment, the

15 proof has to be that that treatment more likely than not

16 would have improved or cured the patient's condition.

17 Do you understand that?

18 A. Yes.

19 Q. All right. But you then go on to state in your

20 report, "However, the use or non-use of tPA is

21 different. Even under the best of circumstances, using

22 tPA offers only the possibility of stroke symptom

23 reversal, not the probability."

24 Did I read that correctly?

25 A. Yes.

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1 Q. And so I don't want to go back through the

2 statistical testimony that you'd given previously; but

3 basically what you are saying in this report is that

4 even if you use tPA, it is not possible to predict that

5 the patient would on a more-likely-than-not basis have

6 an -- had an improved outcome?

7 A. Correct.

8 Q. All right. And so you can't render an opinion

9 on a probability basis. You can -- you can only say

10 that using tPA would have the possibility of improving

11 the patient's symptoms.

12 MR. HELMS: Objection.

13 BY MR. GUARINO:

14 Q. Am I correct in that statement?

15 MR. HELMS: Objection.

16 THE WITNESS: A. Correct.

17 MR. GUARINO: And let me be clear. What's the

18 objection, Mr. Helms?

19 MR. HELMS: You want to repeat your question?

20 MR. GUARINO: Well, no. I want to know what

21 your objection is before I restate my question.

22 MR. HELMS: Let's have the court reporter read

23 the question back.

24 MR. GUARINO: Can you do that, Madam Court

25 Reporter?

Exhibit C

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1 THE COURT REPORTER: Yes.

2 Question: "And so you can't render an opinion

3 on a probability basis. You can -- you can only say

4 that using tPA would have the possibility of improving

5 the patient's symptoms?"

6 MR. GUARINO: What is your objection to that

7 question, Mr. Helms?

8 MR. HELMS: It's a two-part question. I think

9 the -- the opinion's already been stated at the end. So

10 you're asking two different questions in one question.

11 You want to break them up?

12 MR. GUARINO: Madam Court Reporter, did you get

13 the doctor's answer to that question?

14 THE COURT REPORTER: Let me check.

15 MR. GUARINO: Sure.

16 THE COURT REPORTER: There was no answer --

17 well, there was an objection, and then the answer was

18 "Correct."

19 MR. GUARINO: All right.

20 Q. Doctor, let me ask you another question.

21 Based on your report, then, am I correct in

22 assuming that your opinion is that even if you give tPA

23 to a stroke patient within three hours of the onset of

24 stroke symptoms, you cannot predict with reasonable

25 medical certainty that that will improve their outcome?

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1 A. Correct.

2 Q. All you can testify to or render an opinion on

3 in this case is that giving tPA to Mr. Helms, if it

4 could have been administered within three hours, might

5 possibly have improved his outcome?

6 A. Correct.

7 Q. And by the same token, given your testimony, it

8 might also have caused him to suffer cerebral

9 hemorrhage, correct?

10 A. Correct.

11 Q. And just to close up this section of questions,

12 you cannot testify or render an opinion with reasonable

13 medical certainty as to how much improvement a patient

14 like Mr. Helms might get from the administration of tPA;

15 is that correct?

16 A. Correct.

17 Q. And -- and then to -- to bring it the specific

18 claims in this case, even if Mr. Helms could have been

19 diagnosed and treated with tPA within three hours of the

20 onset of his stroke symptoms, you cannot testify that

21 his visual deficit would more likely than not have been

22 improved?

23 A. Correct.

24 Q. You can only testify and render an opinion that

25 it might possibly have been improved?

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1 A. Correct.

2 Q. All right. And if the evidence shows that in

3 fact it would have taken longer than three hours to get

4 Mr. Helms to a facility where he could have been

5 diagnosed and administered tPA, then that would have

6 been outside the standard of care, as you understand it,

7 in 2008?

8 A. Yes.

9 Q. And to put that in layman's terms, so if it

10 would have taken more than three hours from the onset of

11 Mr. Helms' symptoms to get him assessed and transported

12 to another medical facility, then he would not have been

13 administered tPA because it would have been outside the

14 standard of care, which was three hours in 2008,

15 correct?

16 A. Correct.

17 MR. GUARINO: Madam Court Reporter, can we go

18 off record?

19 THE COURT REPORTER: Yes.

20 *(Whereupon, at 12:03 p.m. a recess*

21 *is taken until 12:12 p.m.)*

22 MR. GUARINO: Madam Court Reporter, I just want

23 to confirm that I have marked that was marked

24 Exhibits 1, which is a case file; 1-A, which is the

25 additional papers that Dr. Wapen identified as

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1 communications with Mr. Helms; there was -- Exhibit 2 is

2 his report; there are the three attachments which are 3,

3 4, and 5, the three articles; his CV is Exhibit 6, and

4 there are the three major medical records that are

5 Exhibit 7; am I correct?

6 THE COURT REPORTER: Let me check.

7 MR. GUARINO: Yes, please.

8 *(Whereupon, at 12:13 p.m.*

9 *discussion off record confirming*

10 *exhibits until 12:15 p.m.)*

11 MR. GUARINO: Can we go back on the record,

12 please?

13 THE WITNESS: Okay.

14 THE COURT REPORTER: Yes.

15 BY MR. GUARINO:

16 Q. Dr. Wapen, I have your report. I've asked you

17 about some of the statements in your report. I'm not

18 going to cover all the other statements in your report.

19 But I'd like to know, are there any other

20 opinions that you intend to offer that are written in

21 your report or that we haven't covered in your testimony

22 today?

23 A. No.

24 Q. All right. What is your hourly billing charge

25 for the deposition today?

Exhibit C